No.



7100101

ANTE: UNIVERSE OF ANTERION

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Agway, Inc.

TUltereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Early Market'

In Testimony Whereof, Thave hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington

this 9th day of May in the year of our Lord one thousand nine hundred and seventy-four

Earth But Secretary of Auriculture

Plant Variety Protection Grain Division

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

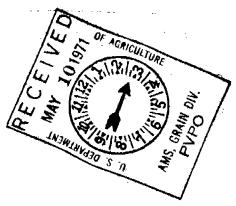
INSTRUCTIONS: See Reverse.	2. KIND NAME	·		LLC USE ONLY	
1. VARIETY NAME OR TEMPORARY DESIGNATION		FOR OFFICIAL USE ONLY			
	Don .		71	101	
Early Market 3. GENUS AND SPECIES NAME	Pea 4. FAMILY NAME (Bo	otanicel)	FILING DATE	TIME	
3. GENUS AND SPECIES NAME			5/10/71	2:30 P.M.	
	Legumir	oseae	FEE RECEIVED	BALANCE DUE	
Pisum sativum	5. DATE OF DETER		\$ 250.00	5 <u> </u>	
			\$	_ \$	
	1969		\$	\$	
5. NAME OF APPLICANT(S)	7. ADDRESS (Street & Code)	and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER	
	Code			X 6 69%	
A	Dog 123	22		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Agway Inc.	Box 133	oo se, New York	13201	315-477-7061	
	byracus	se, new rork	1)201		
9. IF THE NAMED APPLICANT IS NOT A	PERSON, FORM OF	10. STATE OF INCO	RPURATION	11. DATE OF INCOR-	
ORGANIZATION: (Corporation, partnersh	nip, association, etc.)			PORATION	
Corporation		Delawar		July 1964	
12. Name and mailing address of app	olicant representative(s), if any, to serve	in this application	and receive all papers:	
'E'	-				
Mr. James MacEach	ron				
Agway Inc.					
Box 1333					
Syracuse, New Yor	k 13201				
13. CHECK BOX BELOW FOR EACH ATTA					
13A. Exhibit A, Origin and E	escription of the Varie	ety	-, -, -, -, -, -, -, -, -, -, -, -, -, -	*	
13c. Exhibit C, Objective De	escription of the varie	Ly			
X 130. Exhibit D, Data Indicat	tive of Novelty				
13E. Exhibit E, Statement of	the Basis of Applican	nt's Ownership	•		
14A. Does the applicant(s) specify (See Section 83(a), (If "Yes,"	that seed of this varie	ty be sold by varie	ty name only as a cl	lass of certified seed?	
14B. Does the applicant(s) specify	that this variety be	14C. If "Yes," t	o 14B, how many ge	nerations of production	
limited as to number of genera	tions?	beyond bree	der seed?		
_	YES XNC	FOUNDAT	ION REGISTER	ED CERTIFIED	
The applicant declares that a viab ance of a certificate and will be re	le sample of basic see	ed of this variety w	ill be deposited upo	on request before issu- as may be applicable.	
The undersigned applicant(s) of					
uniform, and stable as required in Plant Variety Protection Act.	'n Section 41 and is en	titled to protection	under the provision	us of Section 42 of the	
Applicant is informed that false	representation herein o	can jeopardize prot	ection and result in	penalties.	
<u> April 12, 1973 </u>		<u> </u>	SIGNATURE OF APPLI	ICANT)	
(DATE)			WIGHT ONE OF BUILD	4	
			In 8		
(DATE)		* Hours	SIGNATURE OF APPL	ICANT)	

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.



EARLY MARKET PEA EXHIBIT "A"

ORIGIN:

grif 🔻 🔻

Original cross in the greenhouse during the winter of 1952-53, between pea varieties Progress #9 and World Record resulted in 45 seeds. Out of the plants produced, nine tall plants were selected as single lines. Further selections were made within each of the nine lines. By 1957, four of the original lines had been discontinued and, in 1960, a single line was selected and increased.

A pilot increase in Idaho, in 1963, produced a crop that was too variable for release. Further selections for a tall (36% inch) vine with the large Progress #9 pod type were made. At this time the earliness from World Record was also stressed.

A continuous selection program resulted in a uniform variety with desirable characteristics by 1968. The first increase was made in Idaho in 1969 and continued in 1970.

EARLY MARKET PEA

EXHIBIT "B"

BOTANICAL DESCRIPTION:

Vines are 30 to 36 inches tall with occasional basal branches. Foliage is scanty to medium in amounts. Color of foliage is medium to dark green with considerable light flecking on the leaves. Foliage is composed of small leaflets in groups of four and of slightly larger, blunt-tipped stipules. Stipules clasp the stem lightly and are cut with small teeth over half the outer margin. Tendrils are inconspicuous. Flowers begin at the 7th or 8th node, are white and usually borne singly but occasionally paired.

Pods are borne on long slender stalks. They are broad, plump, straight and quite smooth, with the dorsal edge showing a slight curve upward. Pods are 4-1/2 to 5 inches long enclosing 7 to 9 large, bright green peas of excellent quality.

Seeds are wrinkled, ranging in color from deep green to cream. An early spring planting (mid April) will generally produce a marketable crop in 55-60 days. Seeds are medium in size, requiring approximately 85 per ounce.

Bayman (100 more)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

(Pea)

OBJECTIVE DESCRIPTION OF VARIETY

PEA (PISUM SATIVUM)

INSTRUCTIONS: See Reverse.	PEA (PISUM SATIVUM)	
NAME OF APPLICANTS		FOR OFFICIAL USE ONLY
Agway Inc Seed Div	rision	71101
ABBRELL (CHOCK MIN 10) OF MAPAGE 1101 ONLY LINE	, 1.1. 2.1. 0040	VARIETY NAME OR TEMPORARY
Box 1333	·	DESI GNATION
Syracuse, NY 13201		Early Market
Place the appropriate number that describes th		
Place a zero in first box (e.g. 0 8 9 or 0	9) when number is either 99 or less	s or 9 or less.
1. TYPE: 1 = TALL (Internodes straight)		
2 = DWARF (Internodes zigzag)	1 ~ GARDI	EN 2 = FIELD 3 = EDIBLE-PODDED
2. SEASON:		
Node number of first bloom: 1 = EARLY (8	- 12th node) 2 = MIDSEASON (13 - 24	4th node) 3 = LATE (Greater than 24th node)
3. MATURITY: Section 2	55 60	
O 4 No. of days Earlier than 2		LAXTON WR 3 = LITTLE MARVEL
}	4 = WANDO 5 = ALDERMAN W	
O 1 No. of days Later than 1	4-WANDO 5-ALDENMAN	
4. PLANT HEIGHT:		
0 9 2 CM. HIGH		·
0 0 Cm. Shorter than	1 = ALASKA WR 2 = THOMAS	LAXTON WR 3 = LITTLE MARVEL
Cm. Taller than	4 = WANDO 5 = ALDERMAN V	NR 6 = AUSTRIAN WINTER
5. VINE:		1 = SLIM (Alaska) 3 = HEAVY (Alderman)
2 Habit: 1 = DETERMINATE 2 = INDET	1 _ 1	1 = SLIM (Alaska) 3 = HEAVY (Alderman) 2 = MEDIUM (Thomas Laxton WR)
2 Branching: 1 = NONE (Alaska) 2 = 1 -	2 BRANCHES (Little Marvel) 3 = MOF	RE THAN 2 BRANCHES (Dwarf Gray Sugar)
Node Color: 1 = GREEN 2 = RED BLO	TCH NUMBER	R OF NODES
CM. INTERNODE LENGTH (Just below	1st flowering node)	
6. LEAFLETS: 1 = LIGHT GREEN (Alaska W	R) 2 = MED. GREEN (Thomas Laxton	WR) 3 = DARK GREEN (Alderman)
2 Color: 4 = OTHER (Specify)		
3 Wax: 1 = NONE 2 = LIGHT 3 = MEDIU	IM 4 = HEAVY 2 Marbling:	1 = NONE 2 = MARBLED (Alaska)
Number of leaflet pairs: 1 = NOT PAIRE	D 2 = ONE 3 = TWO 4 = THRE	EE OR MORE
7. STIPULES:		
1 = LACKING 2 = PRESENT	2 1 = NOT (CLASPING 2 - CLASPING
1 = NOT MARBLED 2 = MARBLE	Size (Compare	ed with leaflets): 1 = SMALLER 2 = SAME 3 = LARGER
2 Color (Compared with leaflets): 1 = LIGHT	TER 2 = SAME 3 = DARKER	
8. FLOWER COLOR:		
1 = MONOCOLOR 2 = BICOLOR		4
) 1 = WHITE 2 ≠ GR	EENISH 3 = LAVENDER 4 = PURPLE
Venation 1 Standard 1 Wing		ER (Specify)

5 = RED

6 = OTHER (Specify)

FORM GR-470-14 (REVERSE)						
9. PODS:						
1 = STRAIGHT 2 = SLIGHTLY CURVED 2 Shape: 3 = CURVED 1 = STRAIGHT 2 = SLIGHTLY CURVED 1 = POINTED (Alderman) 2 = BLUNT (Alaska)						
Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman) 4 = OTHER (Specify)						
Surface: 1 = SMOOTH 2 = ROUGH 1 = SHINY 2 = DULL						
Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPLE 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify)						
11 cm. LENGTH 25 MM. WIDTH (Between sutures) 08 NUMBER OF SEEDS PER POD						
10. SEEDS (95 - 100 Tenderometer):						
2 Color: 1 = LIGHT GREEN (Perfection Canner) 2 = GREEN (Little Marvel) 3 = DARK GREEN (Dark Skin Perfection) 4 = OTHER (Specify)						
3 Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED						
Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED Surface: 1 = SHINY 2 = DULL SEEDS (Mature, Dry):						
Color: 1 = MONOCOLOR 2 = B/COLOR						
Primary Color: 1 = CREAMY-WHITE (Mammoth Melting Sugar) 2 = YELLOW (Arthur) 3 = CREAM & GREEN (Thomas Laxton) 4 = YELLOW 5 = LIGHT GREEN (Alderman) 6 = MEDIUM GREEN (Little Marvel)						
Secondary Color: 7 = DARK GREEN (Dark Skin Perfection) 8 = BLUE-GREEN (Alaska WR) 9 = BROWN 10 = RED 11 = GRAY 12 = BLACK						
Color Pattern: 1 = SPLASHED 2 = MOTTLED 3 = STRIPED 4 = FLECKED 5 = DOTTED						
Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK TO Cotyledon Color: 1 = YELLOW 2 = ORANGE 3 = GREEN						
3 2 GRAMS PER 100 SEED * per phone with Mr. Mac Williams 47						
11. SEED SIEVE SIZE DISTRIBUTION (95 - 100) Tenderometer):						
Sieve (%): 1 2 3 4 5 6 7 8						
12. PLANT REACTION: (0 = Not Tested; 1 * Susceptible; 2 = Resistant)						
2 1 = DROUGHT (Wando)						
13. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)						
O FUSARIUM WILT O DOWNY MILDEW						
O ASCOCHYTA BLIGHT O POWDERY MILDEW O BACTERIAL BLIGHT						
O MOSAIC O PEA ENATION MOSAIC O YELLOW BEAN MOSAIC						
OTHER (Specify)						
14. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)						
O APHIDS OTHER (Specify)						
15. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED						
CHARACTER NAME OF VARIETY CHARACTER NAME OF VARIETY						
Leafiness World Record Fresh Seed Color Little Marvel						
Leaf Color World Record Mature Seed Color Alderman						
Pod Color Progress #9 Seed Shape Alderman						
Pod Shape Progress #9 Plant Habit World Record						
REFERENCES: The following publication may be used as a reference aid for the standardization of character descriptions and terms						
1. Shoemaker, D. N., 1934. Descriptions of Types of Principal American Varieties of Garden Peas. U.S.D.A.						
Miscellaneous Publication, No. 170. 2. Hedrick, V. P., 1928. The Vegetables of New York. New York Agricultural Experiment Station. Vol. 1., Part 1.						
3. Wade, B. L., 1943. A Key to Pea Varieties. U.S.D.A. Circular No. 676. Nickerson's or any recognized color fan may be used to determine color of the described variety.						

EARLY MARKET PEA

EXHIBIT "C"

OBJECTIVE DESCRIPTION:

An early pea with an unsurpassed taste appropriately describes Early Market. A vigorous, medium to dark green vine reaches 36 inches tall and bears a very heavy yield. Large plump dark green pods 4-1/2 to 5 inches long with pointed ends are borne singly on the stem.

Pods are extremely well-filled, containing 7-9 glossy, bright green peas. These peas retain this bright color even after freezing and cooking.

EARLY MARKET PEA

EXHIBIT "D"

TRIAL PERFORMANCE:

No definitive yield data has been collected to date. However, an extensive test has been planted in the Spring of 1971, from which data can be supplied later.

Exhibit D - Data Indicative of Novelty

Early Market Pea

Data from 1969 Pea Trial, Agway Inc., Prospect, Pennsylvania

	lst. Flower Date	Gross Weight Grams	50 Pods Shelled Peas Grams	Average Peas Per Pod	Less Than 3"	Pod I 3" to 3½"	ength 3½" to 4"	1 4" to 4½"
Early Market	5/26	525	210	6.4		26	68	6
World Record	5/26	440	165	5.4	22	37	37	4
Progress #9	5/28	458	173	6.3	8	23	37	32

Early Market Pea

These data taken from 1963 trials conducted by Agway Inc. in Feeding Hills, Massachusetts. These trials were chosen because it was in Feeding Hills where developmental work was done on Early Market Pea.

	lst. Flower Date	Gross Weight Grams	50 Pods Shelled Peas Grams	Average Peas Per Pod	3" to 3½"	Pod 3분 to 4"	Lengt 4" to 4½"	h 4½" to 5"	Plant <u>Height</u>
Early Market	5/31	560	246	7.24			72	28	36"
World Record	5/31	510_	192	6.4	7-	- 50-	43		36"
Progress #9	6/1	490	235	7.92	1	25	72	3	18"

EXHIBIT D

Early Market Pea

Data Indicative of Novelty

"Early Market" is the result of crossing "World Record" and Progress #9 and selecting plants with a vine as tall as "World Record"; earliness of pod formation as "World Record"; pod size and shape the same as "Progress #9".

"Early Market" most closely resembles "World Record" by having (1) the same vine height and (2) the same maturity rating.

"Early Market" differs from "World Record" by having (3) longer, pointed pods appearing less plump due to greater length (4 1/2 to 5 inches versus 4 to 4 1/2 inches) and (4) 7 to 9 peas per pod compared to 5 to 7 for "World Record".

James L. MacEachron, Manager SEED DIVISION

13 D. Exhibit D:

"Early Market" is the result of crossing "World Record" and Progress #9 and selecting plants with a vine as tall as "World Record"; earlinesss of pod formation as "World Record"; pod size and shape the same as "Progress #9".

"Early Market" most closely resembles "World Record".

"Early Market" differs from "World Record" by having (3) longer, pointed pods appearing less plump due to greater length (4 1/2 to 5 inches versus 4 to 4 1/2 inches) and (4) 7 to 9 peas per pod compared to 5 to 7 for "World Record".

EARLY MARKET PEA EXHIBIT "E"

STATEMENT OF OWNERSHIP:

The applicant, Agway Inc., is the employer of all breeders involved in the development of the variety Early Market Pea.